

IN THE CLAIMS

1. (original) A black liquor gun for feeding black liquor into a recovery boiler, the black liquor gun comprising a nozzle to be inserted through a wall of the recovery boiler into a furnace, characterized in that inside the black liquor gun, at least at the nozzle, there is a flow guidance element in the longitudinal direction of the nozzle and fastened to the black liquor gun, which flow guidance element reduces, in its location, the cross-sectional area of a black liquor flow channel inside the black liquor gun and provides an annular flow channel between the outer wall and the flow guidance element.

2. (currently amended) A black liquor gun as claimed in claim 1, ~~characterized~~ ~~in that~~ wherein the flow guidance element has a substantially constant cross-section.

3. (currently amended) A black liquor gun as claimed in claim 1, ~~characterized~~ ~~in that~~ wherein the flow guidance element has a cross-section diverging from a round shape and is twisted in the longitudinal direction around its longitudinal axis so that with respect to the outer wall of the black liquor gun, black liquor is brought to rotation at the flow guidance element.

4. (currently amended) A black liquor gun as claimed in claim 1, ~~characterized~~ ~~in that~~ wherein a separate flow guide is mounted around at least a part of the length of the flow guidance element so that with respect to the outer wall of the black liquor gun, black liquor is brought to rotation at the flow guide.

5. (currently amended) A black liquor gun as claimed in claim 1, ~~characterized in that~~ wherein as the black liquor gun is in its place, the flow guidance element extends outside the wall of the recovery boiler.

6. (currently amended) A black liquor gun as claimed in claim 1, ~~characterized in that~~ wherein the flow guidance element extends substantially to the end of the nozzle of the black liquor gun.

7. (currently amended) A black liquor gun as claimed in claim 1, ~~characterized in that~~ wherein the flow guidance element is fastened to the inner surface of the outer wall of the black liquor gun by blade-like fastening means.

8. (currently amended) A black liquor gun as claimed in claim 7, ~~characterized in that~~ wherein in the longitudinal direction of the black liquor gun the blade-like fastening means are in an inclined position so that with respect to the outer wall of the black liquor gun, black liquor is brought to rotation at the fastening means.

9. (currently amended) A black liquor gun as claimed in claim 2, ~~characterized in that~~ wherein the flow guidance element has a cross-section diverging from a round shape and is twisted in the longitudinal direction around its longitudinal axis so that with respect to the outer wall of the black liquor gun, black liquor is brought to rotation at the flow guidance element.

10. (currently amended) A black liquor gun as claimed in claim 2, ~~characterized in that~~ wherein a separate flow guide is mounted around at least a part of the length of the flow guidance element so that with respect to the outer wall of the black liquor gun, black liquor is brought to rotation at the flow guide.

11. (currently amended) A black liquor gun as claimed in claim 3, ~~characterized in that~~ wherein a separate flow guide is mounted around at least a part of the length of the flow guidance element so that with respect to the outer wall of the black liquor gun, black liquor is brought to rotation at the flow guide.

12. (currently amended) A black liquor gun as claimed in claim 9, ~~characterized in that~~ wherein a separate flow guide is mounted around at least a part of the length of the flow guidance element so that with respect to the outer wall of the black liquor gun, black liquor is brought to rotation at the flow guide.

13. (currently amended) A black liquor gun as claimed in claim ~~2~~ 1, ~~characterized in that~~ wherein as the black liquor gun is in its place, the flow guidance element extends outside the wall of the recovery boiler.

14. (currently amended) A black liquor gun as claimed in claim 2, ~~characterized in that~~ wherein as the black liquor gun is in its place, the flow guidance element extends outside the wall of the recovery boiler.

15. (currently amended) A black liquor gun as claimed in claim 9, ~~characterized~~
~~in that~~ wherein as the black liquor gun is in its place, the flow guidance element extends
outside the wall of the recovery boiler.

16. (currently amended) A black liquor gun as claimed in claim 4, ~~characterized~~
~~in that~~ wherein as the black liquor gun is in its place, the flow guidance element extends
outside the wall of the recovery boiler.

17. (currently amended) A black liquor gun as claimed in claim 10, ~~characterized~~
~~in that~~ wherein as the black liquor gun is in its place, the flow guidance element extends
outside the wall of the recovery boiler.

18. (currently amended) A black liquor gun as claimed in claim 11, ~~characterized~~
~~in that~~ wherein as the black liquor gun is in its place, the flow guidance element extends
outside the wall of the recovery boiler.

19. (currently amended) A black liquor gun as claimed in claim 12, ~~characterized~~
~~in that~~ wherein as the black liquor gun is in its place, the flow guidance element extends
outside the wall of the recovery boiler.